

## Welding Machine

NSN: 3431-00-235-4728  
LIN: Y47707  
TM: 5-3431-203-15

### System Description

This machine is a floor mounted Miller Synchrowave 356 LX TIG Welding Machine. This welding machine takes 50/60 HZ wall current and converts it to welding current suitable for Tungsten Inert Gas (TIG) welding process as well as Shielded Metal Arc Welding (SMAW), sometimes called "stick welding". Output is 350 amps at 34 arc volts, 40 percent Duty Cycle, 300 amps at 32 arc volts, 60 percent Duty Cycle. Welding range is 3-400A. Dimensions are 38" H and 23" W and 25" D. The weight is 535 pounds. This machine will not support Metal Inert Gas (MIG) welding processes. Accessory equipment is required to run this machine, the same as all other types of welding machines. This machine requires a TIG torch (water or air cooled, depending upon the size of the job to be done), possibly a water pump and chiller if a water cooled torch is selected and a faucet is not available to feed continuously fresh cool water to the torch, inter gas cylinder, gas regulator with flow meter, gas hose to go from the cylinder to the welding machine, a foot control for turning the current on and off when the hands are too busy holding the torch and electrode to "hit the switch" by hand. All other safety equipment related to welding is also required.

### System Mission

The welding machine provides the soldier with Tungsten Inert Gas (TIG) and Shielded Metal Arc Welding (SMAW) welding capability for making and repairing bolts, gears, threads and weapon parts and cuts metal for fabricated parts.

### Reset Responsibility

Unit

### Reset Location

This system is not currently in reset.

**This system is not currently in reset.**

### Reset Type

**Reset Work (Field Level)** - Work performed to correct equipment faults that are performed at the ORG/DS level; performed by unit level soldiers, augmented by contractor as required.

### Reset Strategy

This is a major item (PA funded) with no funds currently available. Last procurement of this LIN was Sep 05. There is no overhaul or repair program for this welding machine. The life span of the welding machine is 13 years. The Maintenance Expenditure Limit is 55 percent for 1-5 years, 45 percent for 6-10 years and 30 percent for 10 or more years. Unless the welding machine is in condition code A or B it should be sent to the unit's local DRMO for disposal. To order the welding machine customers must go through the supply system with a Milstrip requisition.

### **- Contact Information -**

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